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1 [Power-aware State Dissemination in Mobile Distributed Virtual Environments](#)

Weidong Shi, Kalyan Perumalla, Richard Fujimoto

June 2003 **Proceedings of the seventeenth workshop on Parallel and distributed simulation PADS '03**

Publisher: IEEE Computer Society

Full text available: pdf(174.13 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

[Publisher Site](#)

In distributed simulations, such as multi-player distributed virtual environments (DVE), power consumption traditionally has not been a major design factor. However, emerging battery-operated mobile computing platforms require revisiting DVE implementation approaches for maximizing power efficiency. In this paper we explore some implications of power considerations in DVE implementation over mobile handhelds connected by wireless networks. We focus on the state dissemination problem in DVEs and p ...

2 [More power to you: Turducken: hierarchical power management for mobile devices](#)

Jacob Sorber, Nilanjan Banerjee, Mark D. Corner, Sami Rollins

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: pdf(262.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Maintaining optimal consistency in a distributed system requires that nodes be always-on to synchronize information. Unfortunately, mobile devices such as laptops do not have adequate battery capacity for constant processing and communication. Even by powering off unnecessary components, such as the screen and disk, current laptops only have a lifetime of a few hours. Although PDAs and sensors are similarly limited in lifetime, a PDA's power requirement is an order-of-magnitude smaller than a la ...

Keywords: embedded devices, energy management, low-power computing, mobile computing, pervasive computing, power management

3 [IP paging service for mobile hosts](#)

R. Ramjee, L. Li, T. La Porta, S. Kaser

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☐ 1. Document ID: US 4926422 A

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File: USPT

May 15, 1990

US-PAT-NO: 4926422

DOCUMENT-IDENTIFIER: US 4926422 A

TITLE: On-board switching controller for a satellite with on-board switching

DATE-ISSUED: May 15, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alaria; Gian B.	Turin			IT
Poggio; Cesare	Turin			IT
Ventimiglia; Giovanni	Buttiglieria Alta			IT

US-CL-CURRENT: 370/323; 370/325, 455/12.1

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"active state" "suspend state" "state updating"

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Mobile communication system, mobile station, base station, and ...

[0142] In addition, the **base station** sets one of an **active state** in which the **mobile** station can receive the packet and a **suspend state** in which the **mobile** ...

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a **base station state updating** section (16) which notifies the **mobile** station ... the **mobile** station 2 should be set in the **active state** or **suspend state**. ...

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10/689,509



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<input type="checkbox"/> Examiner's Answer	<input type="checkbox"/> Reply Brief Noted	<input type="checkbox"/> Non-Entry of Reply Brief
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Examiner's Name: Prenell P. Jones

AU: 2616

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Term	Documents
STATE	1928409
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ACTIVAT\$	0
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ACTIVATABE	1
ACTIVATABEL	1
ACTIVATABIE	2
ACTIVATABILITIES	2
ACTIVATABILITY	103
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<u>L55</u>	l47 and activat\$ near state	3	<u>L55</u>
<u>L54</u>	L53 and activ\$	8	<u>L54</u>
<u>L53</u>	l51 and packet near receiv\$	9	<u>L53</u>
<u>L52</u>	L51 and suspend\$	6	<u>L52</u>
<u>L51</u>	HSDPA and mobile and state near updat\$	14	<u>L51</u>
<u>L50</u>	L49 and HSDPA	3	<u>L50</u>
<u>L49</u>	L48 and state near updat\$	6	<u>L49</u>
<u>L48</u>	L47 and base near station and mobile	45	<u>L48</u>
<u>L47</u>	packet near receiv\$ near state	304	<u>L47</u>
<u>L46</u>	L45 and state	11	<u>L46</u>
<u>L45</u>	L42 and activat\$ and terminat\$	12	<u>L45</u>
<u>L44</u>	L42 and activat\$ and suspen\$	0	<u>L44</u>
<u>L43</u>	L42 and HSDPA	1	<u>L43</u>
<u>L42</u>	base near station near updat\$ and mobile near updat\$	60	<u>L42</u>
<u>L41</u>	control near notifies near mobile	9	<u>L41</u>
<u>L40</u>	L39 and transceiver	0	<u>L40</u>
<u>L39</u>	L38 and control near packet	7	<u>L39</u>
<u>L38</u>	L37 and updat\$	24	<u>L38</u>
<u>L37</u>	L31 and base near station and mobile	37	<u>L37</u>
<u>L36</u>	L33 and updat\$ near set\$	0	<u>L36</u>
<u>L35</u>	L33 and updat\$ near sets	0	<u>L35</u>
<u>L34</u>	L33 and suspen\$ and activ\$	2	<u>L34</u>
<u>L33</u>	L32 and control	26	<u>L33</u>
<u>L32</u>	L31 and updat\$ near state	26	<u>L32</u>
<u>L31</u>	packet near receiv\$ near state and BS	242	<u>L31</u>
<u>L30</u>	L29 and receiv\$ near state	0	<u>L30</u>
<u>L29</u>	L28 and control	3	<u>L29</u>
<u>L28</u>	L27 and state	3	<u>L28</u>
<u>L27</u>	L26 and BS near updat\$	3	<u>L27</u>
<u>L26</u>	transceiver near updat\$	106	<u>L26</u>
<u>L25</u>	mobile near updat\$ near section	0	<u>L25</u>
<u>L24</u>	transceiver near state near updat\$	0	<u>L24</u>
<u>L23</u>	L22 and activ\$ and suspen\$	5	<u>L23</u>
<u>L22</u>	L21 and control near information	5	<u>L22</u>
<u>L21</u>	HSDPA and mobile and base adj station and transmission/reception near state	5	<u>L21</u>
<u>L20</u>	L19 and updat\$ near section	1	<u>L20</u>
<u>L19</u>	L14 and updat\$	439	<u>L19</u>
<u>L18</u>	L14 and suspen\$ and activ\$	28	<u>L18</u>
<u>L17</u>	L15 and suspen\$ and activ\$	0	<u>L17</u>
<u>L16</u>	L15 and suspend and active	0	<u>L16</u>
<u>L15</u>	L14 and updat\$ near packet near receiv\$	2	<u>L15</u>

<u>L14</u>	HSDPA and mobile and base and BS	1176	<u>L14</u>
<u>L13</u>	L10 and control	3	<u>L13</u>
<u>L12</u>	L10 and control near information	0	<u>L12</u>
<u>L11</u>	L10 and control near packet	0	<u>L11</u>
<u>L10</u>	L9 and suspen\$ near state	3	<u>L10</u>
<u>L9</u>	L6 and activ\$ near state	15	<u>L9</u>
<u>L8</u>	L6 and packet near receiv\$ near state	0	<u>L8</u>
<u>L7</u>	L6 and state near updat\$	0	<u>L7</u>
<u>L6</u>	mobile near state and BS near state	71	<u>L6</u>
<u>L5</u>	L4 and activ\$ near state and suspen\$ near state	0	<u>L5</u>
<u>L4</u>	L3 and updat\$ near notif\$	667	<u>L4</u>
<u>L3</u>	BS and mobile and updat\$	55082	<u>L3</u>
<u>L2</u>	L1 and updating near section and mobile and base	1	<u>L2</u>
<u>L1</u>	370/350.ccls.	1099	<u>L1</u>

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Search Results -

Term	Documents
TRANSCEIVER	92044
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<u>L40</u>	L39 and transceiver	0	<u>L40</u>
<u>L39</u>	L38 and control near packet	7	<u>L39</u>
<u>L38</u>	L37 and updat\$	24	<u>L38</u>
<u>L37</u>	L31 and base near station and mobile	37	<u>L37</u>
<u>L36</u>	L33 and updat\$ near set\$	0	<u>L36</u>
<u>L35</u>	L33 and updat\$ near sets	0	<u>L35</u>
<u>L34</u>	L33 and suspen\$ and activ\$	2	<u>L34</u>
<u>L33</u>	L32 and control	26	<u>L33</u>
<u>L32</u>	L31 and updat\$ near state	26	<u>L32</u>

<u>L31</u>	packet near receiv\$ near state and BS	242	<u>L31</u>
<u>L30</u>	L29 and receiv\$ near state	0	<u>L30</u>
<u>L29</u>	L28 and control	3	<u>L29</u>
<u>L28</u>	L27 and state	3	<u>L28</u>
<u>L27</u>	L26 and BS near updat\$	3	<u>L27</u>
<u>L26</u>	transceiver near updat\$	106	<u>L26</u>
<u>L25</u>	mobile near updat\$ near section	0	<u>L25</u>
<u>L24</u>	transceiver near state near updat\$	0	<u>L24</u>
<u>L23</u>	L22 and activ\$ and suspen\$	5	<u>L23</u>
<u>L22</u>	L21 and control near information	5	<u>L22</u>
<u>L21</u>	HSDPA and mobile and base adj station and transmission/reception near state	5	<u>L21</u>
<u>L20</u>	L19 and updat\$ near section	1	<u>L20</u>
<u>L19</u>	L14 and updat\$	439	<u>L19</u>
<u>L18</u>	L14 and suspen\$ and activ\$	28	<u>L18</u>
<u>L17</u>	L15 and suspen\$ and activ\$	0	<u>L17</u>
<u>L16</u>	L15 and suspend and active	0	<u>L16</u>
<u>L15</u>	L14 and updat\$ near packet near receiv\$	2	<u>L15</u>
<u>L14</u>	HSDPA and mobile and base and BS	1176	<u>L14</u>
<u>L13</u>	L10 and control	3	<u>L13</u>
<u>L12</u>	L10 and control near information	0	<u>L12</u>
<u>L11</u>	L10 and control near packet	0	<u>L11</u>
<u>L10</u>	L9 and suspen\$ near state	3	<u>L10</u>
<u>L9</u>	L6 and activ\$ near state	15	<u>L9</u>
<u>L8</u>	L6 and packet near receiv\$ near state	0	<u>L8</u>
<u>L7</u>	L6 and state near updat\$	0	<u>L7</u>
<u>L6</u>	mobile near state and BS near state	71	<u>L6</u>
<u>L5</u>	L4 and activ\$ near state and suspen\$ near state	0	<u>L5</u>
<u>L4</u>	L3 and updat\$ near notif\$	667	<u>L4</u>
<u>L3</u>	BS and mobile and updat\$	55082	<u>L3</u>
<u>L2</u>	L1 and updating near section and mobile and base	1	<u>L2</u>
<u>L1</u>	370/350.ccls.	1099	<u>L1</u>

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